

Summary on the standard for Specification for Mild Steel Wire, Cold Heading Quality IS 1673

Cold heading quality refers to the suitability of metal wire or rod for the cold heading process, which is a method of shaping metal at room temperature by applying force rather than heat. This process is commonly used to create fasteners like **bolts, screws, rivets, and pins**.

IS 1673 specifies the requirements for mild steel wire used for cold heading quality. **Mild steel wire** is a type of steel wire made from low-carbon steel, typically containing around 0.05–0.25% carbon by weight. Mild steel wire is also weldable and has good tensile strength, though it is not as hard or strong as higher-carbon steels.

Wire is the product of a wire rod whose sectional area has been reduced at normal temperatures either by drawing through a specially prepared orifice or passing under pressure between suitably driven rolls.

The standard specifies the requirement for chemical composition, dimensional requirement, tensile strength, reversion torsion requirement and crushing requirements.

Mild steel wire conforming to IS 1673 is primarily used to manufacture Bolts, Nuts, and Screws, Rivets and Pins.